

Fig. 2

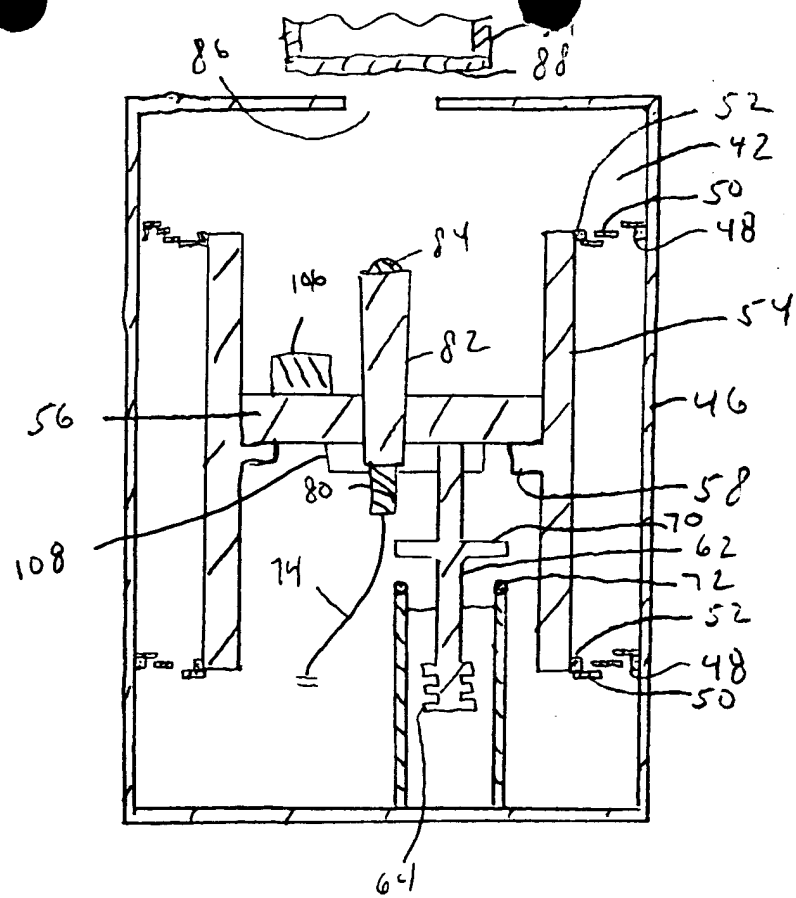
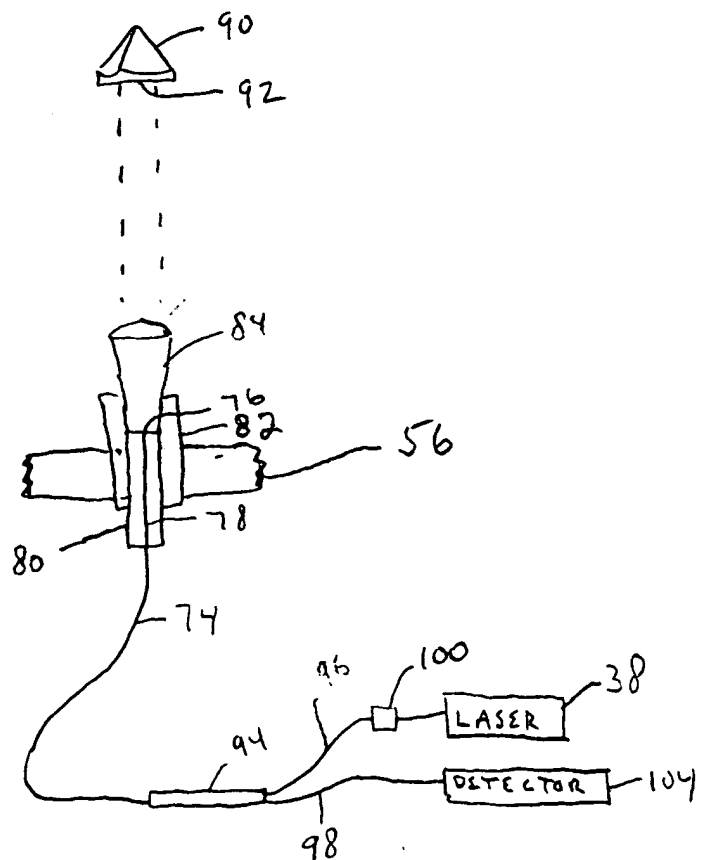


Fig. 3



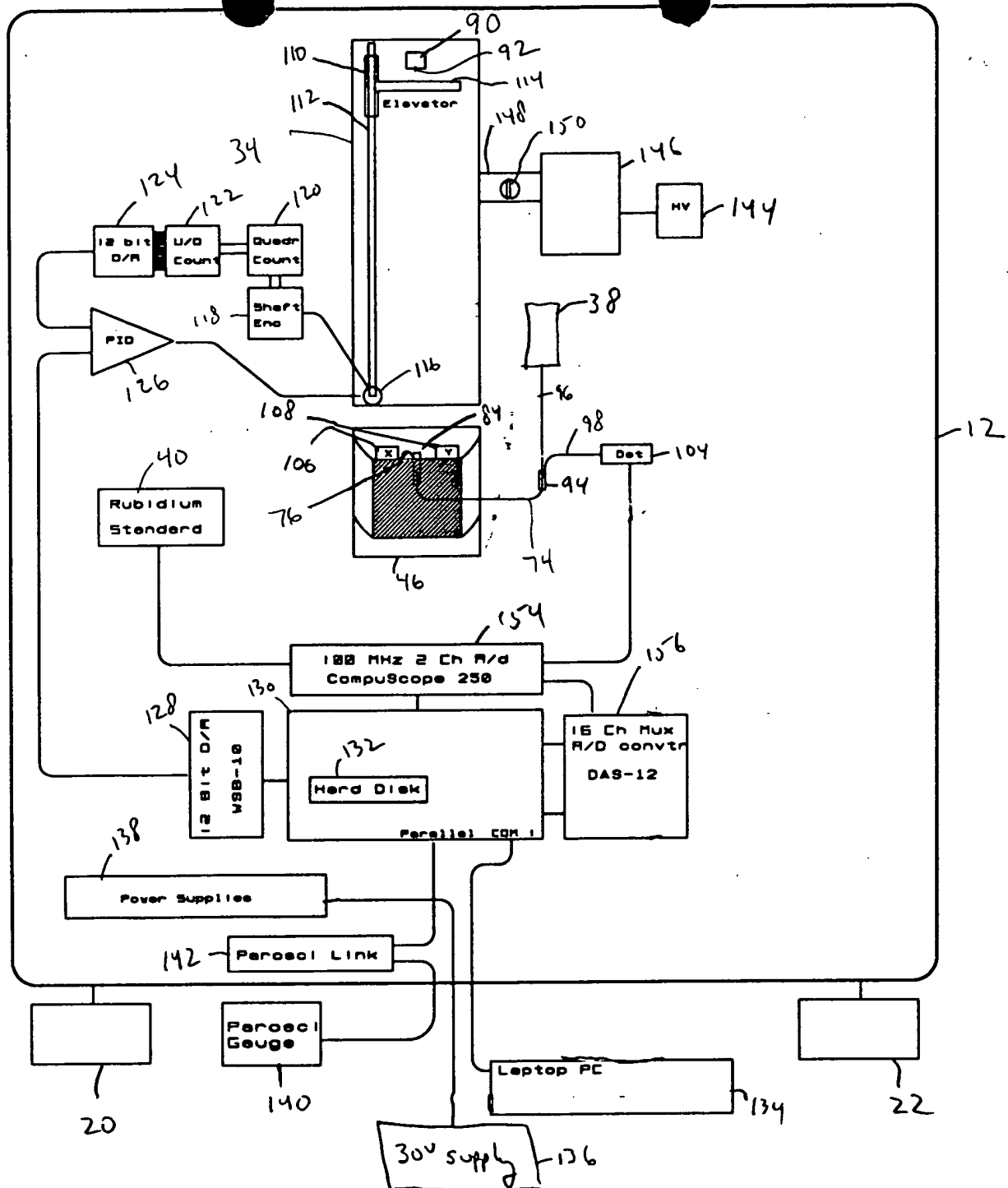


Fig. 4

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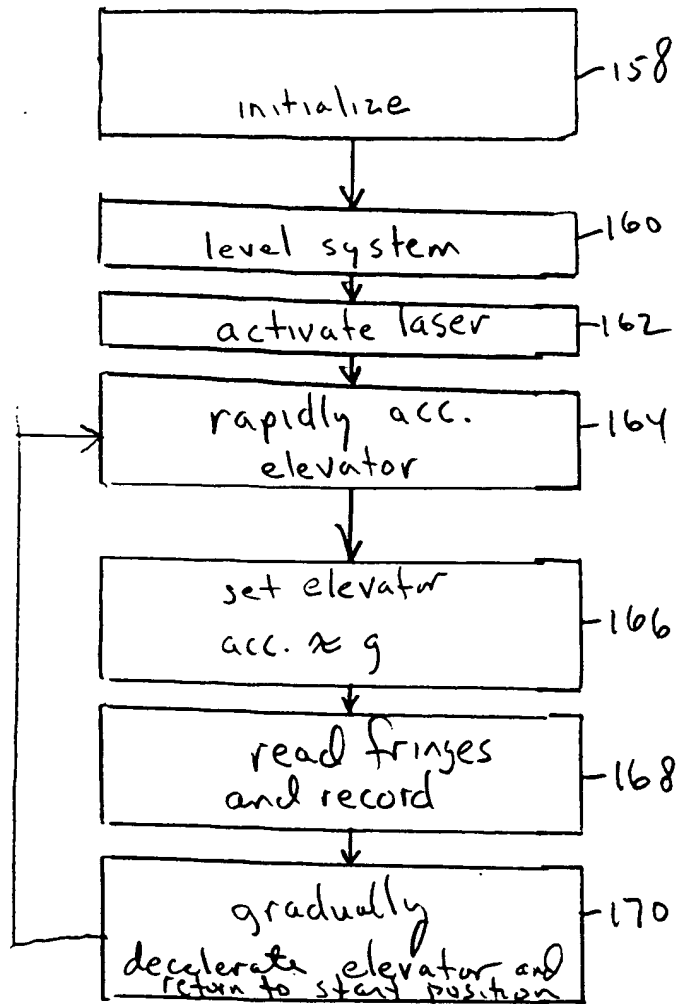


Fig. 5

Acquire Data  
by dropping  
mass

176

Calculate times  
of mean-crossings

178

List differences  
in mean-crossing  
times

180

Fit peaks and  
calculate est.  
of  $g$  and  $v_0$

182

Form initial  
est. of  $x_j$

184

Evaluate  $f$   
and derivatives  
in Eq. 2

186

Use least squares  
to obtain  $\Delta x_j$

188

Set  
 $x_j = x_j + \Delta x_j$

190

no  
 $\Delta g < z$  ?

192

yes  
display  
 $g$

193

no  
Last  
Drop in  
Set ?

194

yes  
Display  
Average  $g$   
and  
Std. Dev.

196

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Fig. 7

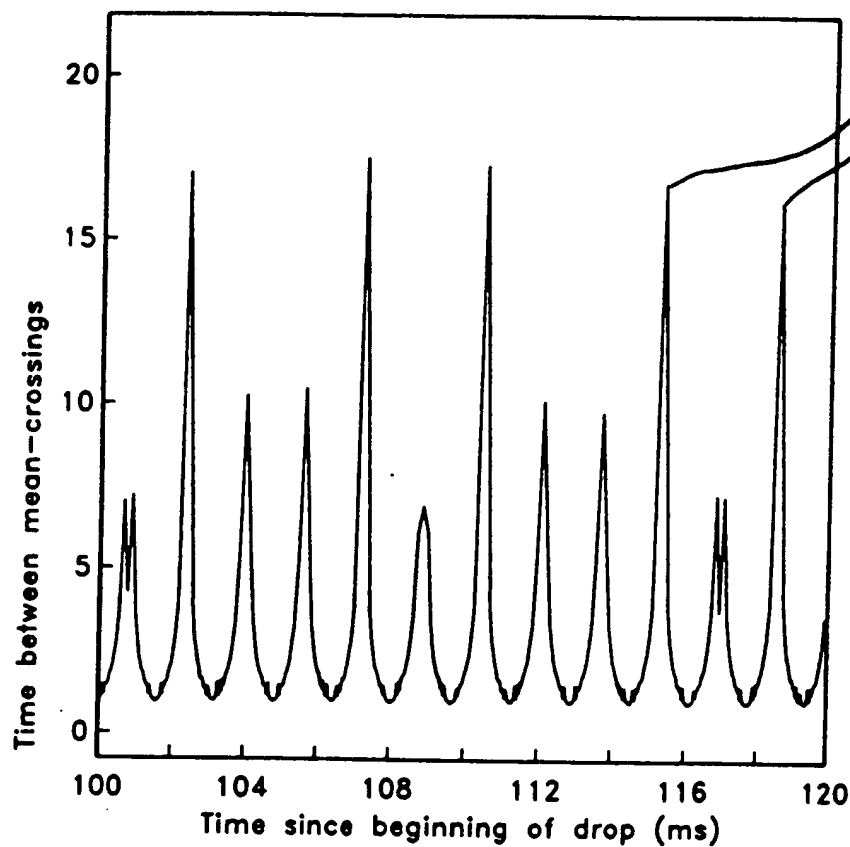
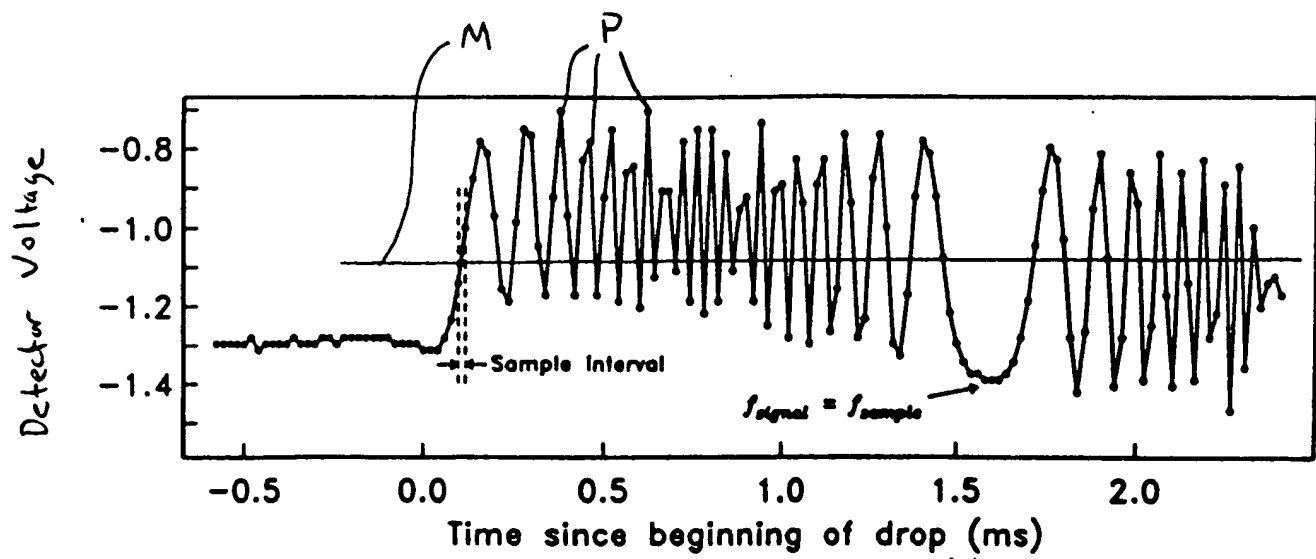


Fig. 8